

FACTS ON

FIRE-PROOF WINDOWS



BY
KNISELY BROS.
MANUFACTURERS OF
METAL WINDOWS AND DOORS
28TH STREET AND 5TH AVENUE
CHICAGO

PHONE CALUMET 1266

To The Trade

¶ In presenting this pamphlet we wish to state that we have been established since 1858, in the manufacture of Sheet Metal Work and Roofing, and are now large manufacturers of Fire Proof Windows and Doors, and shall continue our reputation for the high grade manufacture of the same. We install windows in all parts of the country, or give full instructions so that any mechanic may do so after windows leave our factory.

¶ Every piece of work we turn out is of the highest grade of excellence.

¶ Our experience is wide and we know the problem of handling the manufacture of Fire Proof Windows and Doors. Our ideas have been copied by other manufacturers and all such copies are infringements, as our windows and doors are manufactured under our own patents.

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¶ Our windows, viz., Pivoted Stationary-Double Hung and Casement, also Hollow Metal and Wood Core Metal Covered Doors, have been tested and approved by the Underwriters' Laboratories, Inc., and are registered with the National Board of Underwriters throughout the country, thereby assuring all buildings equipped with our windows and doors a very low rate of insurance.

¶ We guarantee all windows manufactured by us to be up to the specifications of the above board.

¶ All of our windows are inspected by a representative of the Underwriters' Laboratories and have their approved tag riveted to the frame. The tag is numbered and registered by the board.

¶ The fire test given our windows and doors by the Underwriters show the quality of material and workmanship put in our goods.

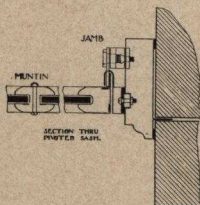
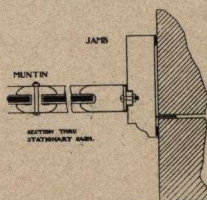
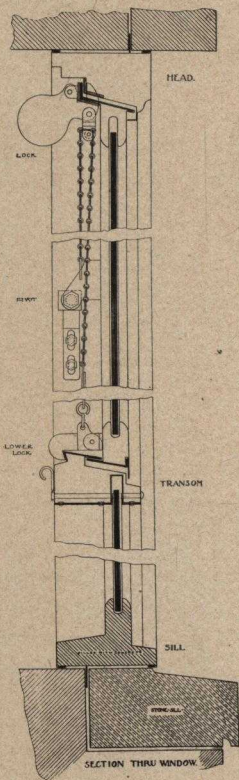
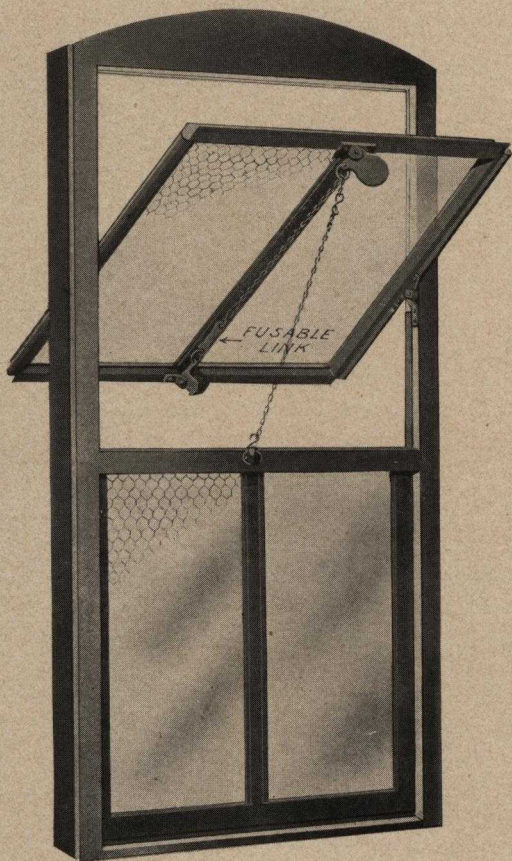
¶ We employ none but skilled mechanics for this branch of our work and the material used is a special soft annealed steel made especially for our window work.

¶ Each window carries our own name plate, so that no other can be substituted for same.

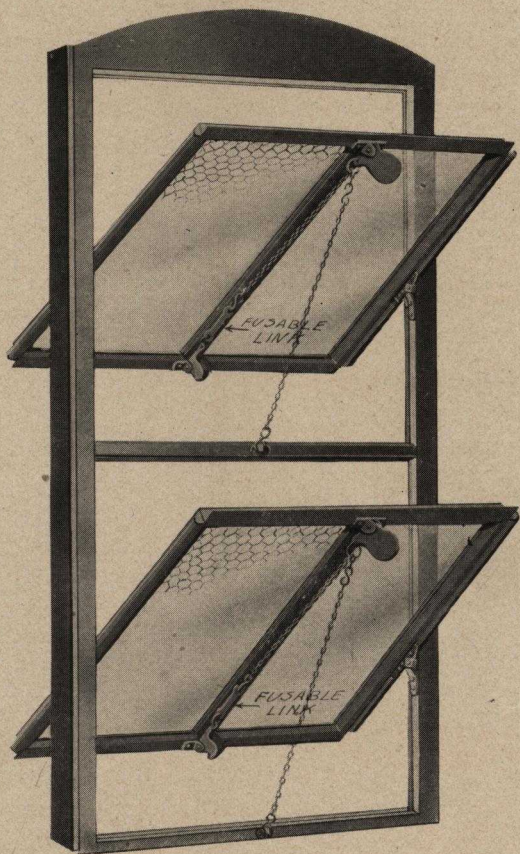
¶ Unless otherwise specified we furnish 1/4" ribbed wire glass, cut to size ready for setting. Glass is always shipped separately.

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Standard Pivoted Window, Single



Standard Pivoted Window, Double



D o u b l e H u n g W i n d o w

¶ The frame is made of hollow air chamber construction except the sill, which is filled with concrete.

¶ The jambs are provided with removable pockets at top and bottom to give access to weights, pulleys and automatic attachments.

¶ The slides for sash are bolted to plates, which are riveted to the jambs, thus forming an effective wind break.

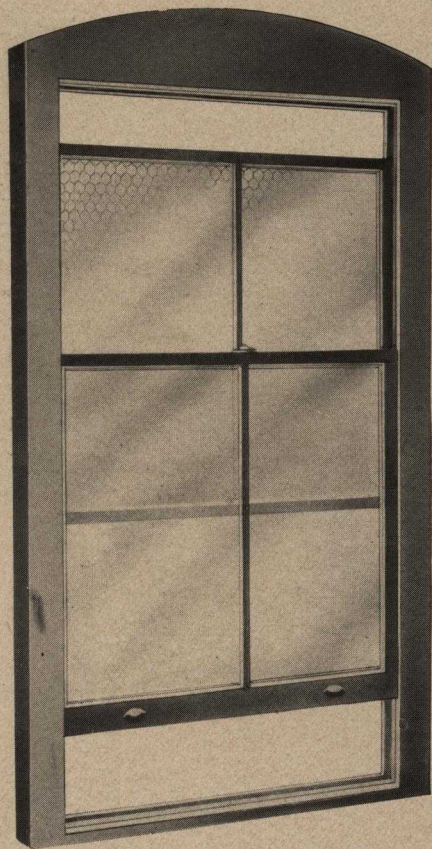
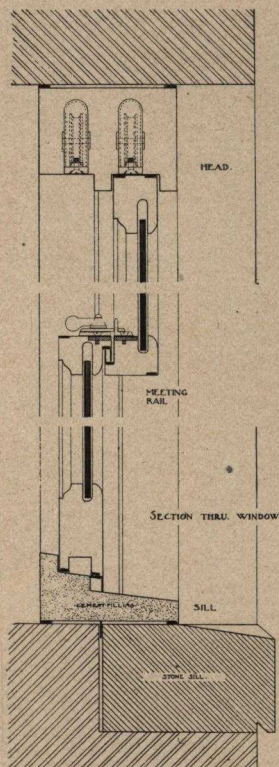
¶ The inner edges of the meeting rails are formed to provide an interlocking wind break that is made more effective when the lock is closed; the closing of the lock draws the sash together. The wind break is also repeated at the head and sill.

¶ All windows (except fire escape windows) are provided with automatic weights for self-closing in case of fire.

¶ This window can also be made to counter-balance without weights.

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Double Hung Window



Standard Casement Window

¶ The frame is made of hollow air chamber construction except the sill, which is filled with concrete.

¶ The jambs and side rails of the sash are reinforced with $1\frac{1}{4}'' \times 1\frac{1}{4}'' \times 3/16''$ angle iron to bolt hinges to.

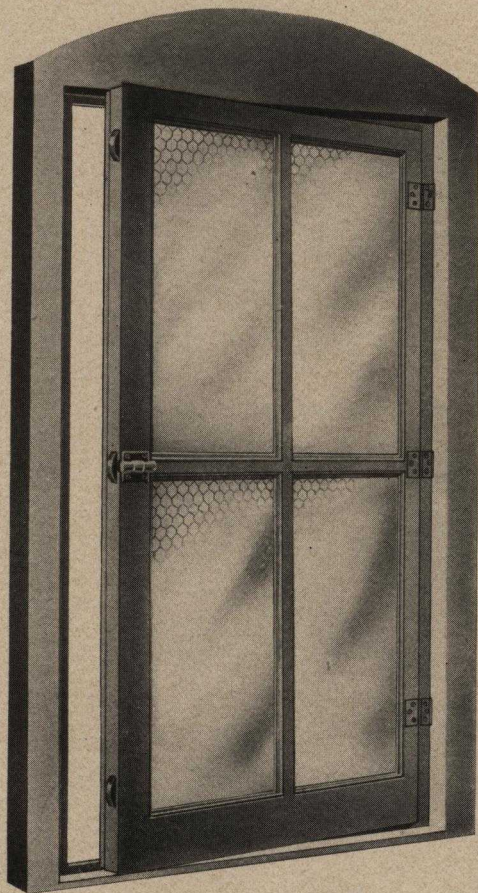
¶ Steel butts are used according to size of frame bolted to frame and sash with $\frac{1}{2}'' \times 3/16''$ bolts.

¶ A three lock system made entirely of heavy iron is used operative from the center, and connected by $\frac{1}{4}''$ square rod. All respond readily by turning of knob at center; no spring is used in connection with lock.

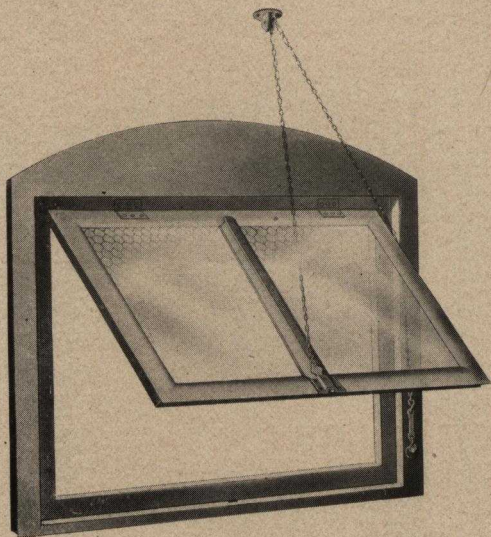
¶ A trigger attachment at top of sash made of $\frac{1}{4}''$ steel is so arranged that the sash will lock itself when closed.

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Casement Window



Hinged at the Top Window



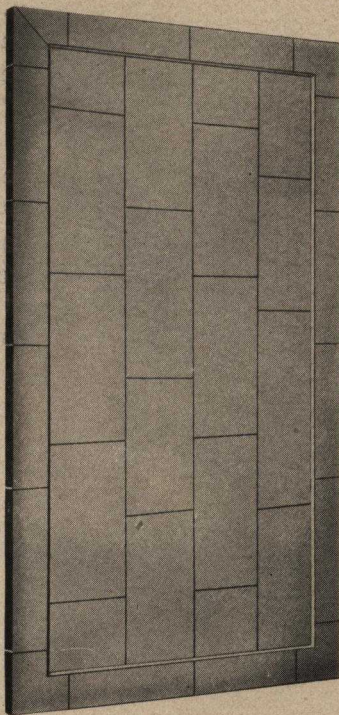
¶ The frame is made of hollow air chamber construction, except the sill, which is filled with concrete.

¶ The head of the frame and top rail of the sash are reinforced with $1\frac{1}{4}$ "x $\frac{3}{16}$ " bar iron on which to bolt hinges.

¶ On the bottom rail of the sash we use a gravity lock that is positive in action.

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Tin Clad Door



¶ These doors are made of 3 layers of $\frac{7}{8}$ " dressed and matched pine flooring. The inner layer is laid horizontal, the outside layers vertical. These are nailed together by wrought iron clinch nails, driven in flush and clinched, so as to leave a smooth surface on both sides of door.

¶ Doors are covered with 14"x20" charcoal tinplate in strict accordance with Underwriters' specifications under our patent.

Hollow Metal Door

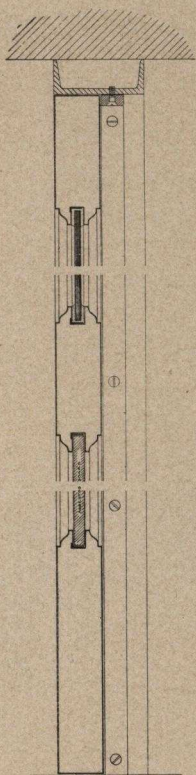
¶ The frame is made of No. 16 galvanized iron, formed in the shape of a channel and covered with No. 24 galvanized iron trim, and reinforced with a 2"x1"x3/16" angle iron on which to bolt hinges.

¶ The door is 2 inches thick and made of No. 20 black steel, stiles, rails, and cross pieces being firmly riveted together, 1/2"x1/8" rivets being used at all intersections 7/8" centers. 1/4" asbestos board is placed across the entire width and length of the door.

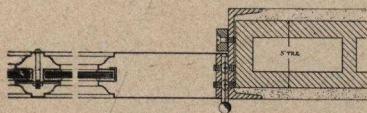
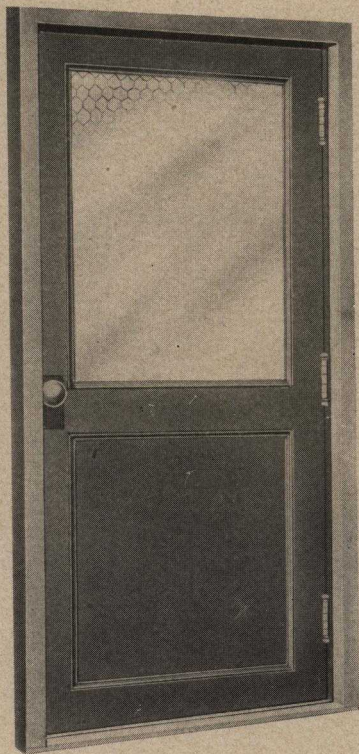
¶ A three lock system can also be used on these doors.

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Hollow Metal Door

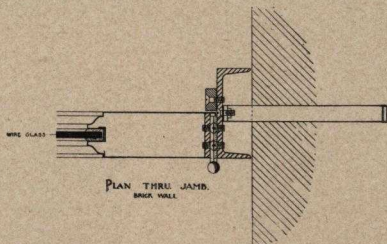


SECTION THRU DOOR.



HUNTER

PLAN THRU JAMB.
TILE WALL.



PLAN THRU JAMB.
BRICK WALL.

Wood Core Metal Covered Door

¶The door is made of $\frac{7}{8}$ " No. 1 pine matched and dressed flooring, the entire width and height thus forming the body or panels. This is covered entirely with No. 26 galvanized iron, lock seamed together.

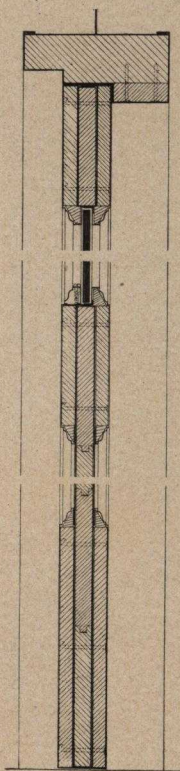
¶The stiles are lock seamed to the inner covering of iron, $\frac{1}{2}$ " dressed No. 1 pine forming the body for the stiles. The upper and lower cross rails are constructed in like manner.

¶Steel butts are bolted to $1\frac{1}{4}$ "x $\frac{3}{16}$ " bar iron with $\frac{1}{4}$ " machine screws.

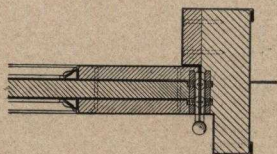
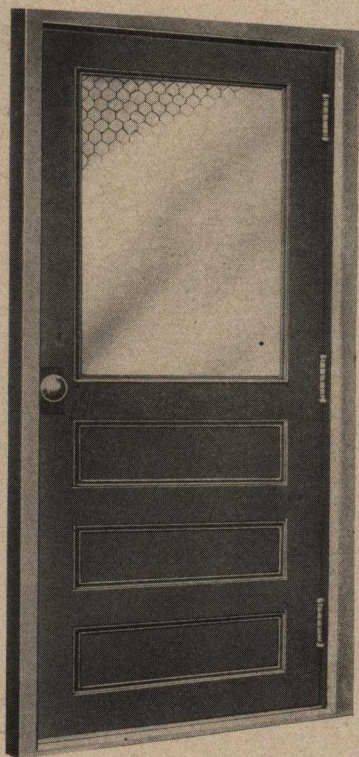
¶A three lock system can also be used on these doors.

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Wood Core Metal Covered Door



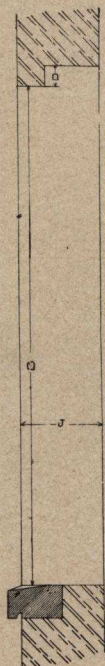
SECTION THRU. DOOR



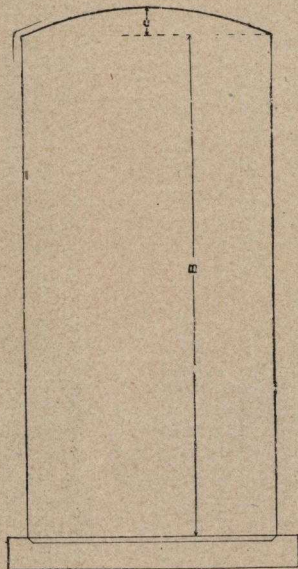
Measurement Instructions

¶ In measuring windows to go in certain openings please observe the following instructions:

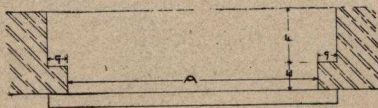
- a Give width of clear opening in wall.
- b Give clear height of square head opening.
- c Give rise of arch.
- d Give offset at the top.
- e Give depth of reveal.
- f Give inner edge of reveal to inner face of wall.
- g Give off-set.
- j Give thickness of wall.



VERTICAL SECTION



FRONT ELEVATION



HORIZONTAL SECTION

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